CHAMPION
POWER EQUIPMENT™

OWNER'S MANUAL & OPERATING INSTRUCTIONS

2 INCH
SEMI-TRASH PUMP

One Year Limited Warranty
1 YEAR
Garantía limitada de un año

MODEL NUMBER
66520

SAVE THESE INSTRUCTIONS
Important Safety Instructions
are included in this manual.

MADE IN CHINA
REV 66520-20130225

10006 Santa Fe Springs Road
Santa Fe Springs CA 90670
USA / 1-877-338-0999
www.championpowerequipment.com

AN IMPORTANT MESSAGE ABOUT TEMPERATURE:

Your Champion Power Equipment product is designed and rated for continuous operation at ambient temperatures up to 40°C (104°F). When your product is needed your product may be operated at temperatures ranging from -15°C (5°F) to 50°C (122°F) for short periods. If the product is exposed to temperatures outside this range during storage, it should be brought back within this range before operation. In any event, the product must always be operated outdoors, in a well-ventilated area and away from doors, windows and other vents.

Have questions or need assistance?

Do not return this product to the store!

WE ARE HERE TO HELP!

Visit our website:
www.championpowerequipment.com
for more info:

- Product Info & Updates
- Frequently Asked Questions
- Tech Bulletins
- Product Registration

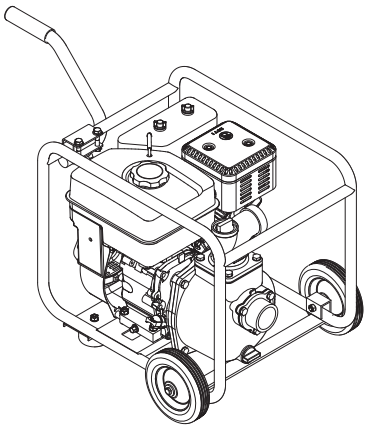
– or –

Call our Customer Care Team Toll-Free at:
1-877-338-0999

WARNING:

The Engine Exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

*We are always working to improve our products. Therefore, the enclosed product may differ slightly from the image on the cover.



2 INCH
SEMI-TRASH PUMP

TABLE OF CONTENTS

Introduction . . . **1**
- Introduction . . . 1
- Semi-Trash Pump . . . 1
- This Booklet . . . 1

Manual Conventions . . . **2**

Safety Rules . . . **3**

Controls and Features . . . **5**
- Semi-Trash Pump . . . 5
- Parts Included . . . 6
  - Wheel Kit . . . 6
  - Hose Kit . . . 6
  - Other . . . 6

Assembly . . . **7**
- Remove the Semi-Trash Pump from the Shipping Carton . . . 7
- Install the Wheel Kit . . . 7
- Install the Vibration Mounts . . . 7
- Install the Handle . . . 7
- Add Engine Oil . . . 7
- Add Fuel . . . 8

Operation . . . **9**
- Semi-Trash Pump Location . . . 9
- Connecting a Hose Kit . . . 9
- Starting the Engine . . . 10
- Stopping the Engine . . . 10
- Operation at High Altitude . . . 11

Maintenance and Storage . . . **12**
- Engine Maintenance . . . 12
  - Oil . . . 12
  - Spark Plugs . . . 12
  - Air Filter . . . 12
  - Cleaning . . . 13
  - Adjustments . . . 13
  - Maintenance Schedule . . . 13
- Storage . . . 13
  - Engine Storage . . . 13
  - Semi-Trash Pump Storage . . . 13
  - Winter Storage . . . 13

Specifications . . . **14**
- Engine Specifications . . . 14
- Semi-Trash Pump Specifications . . . 14
- Fuel . . . 14
- Oil . . . 14
- Spark Plugs . . . 14
- Maintenance Valve Clearance . . . 14
- An Important Message About Temperature . . . 14
- Parts Diagram . . . 15
- Parts List . . . 16
- Engine Parts Diagram . . . 17
- Engine Parts List . . . 18

Troubleshooting . . . **19**

Warranty . . . **20**
- Warranty Qualifications . . . 20
- Repair/Replacement Warranty . . . 20
- Do Not Return The Unit To The Place Of Purchase . . . 20
- Warranty Exclusions . . . 20
  - Normal Wear . . . 20
  - Installation, Use and Maintenance . . . 20
  - Other Exclusions . . . 20
  - Limits of Implied Warranty and Consequential Damage . . . 20
- Contact Information . . . 20
  - Address . . . 20
  - Customer Service . . . 20
  - Technical Service . . . 20

INTRODUCTION

Introduction

Congratulations on your purchase of a Champion Power Equipment semi-trash pump. CPE designs and builds semi-trash pumps to strict specifications. With proper use and maintenance, this semi-trash pump will bring years of satisfying service.

Semi-Trash Pump

This unit is a gasoline engine driven, impeller based semi-trash pump. It is designed to pump clear water only.

This Booklet

Every effort has been made to ensure the accuracy and completeness of the information in this manual. We reserve the right to change, alter and/or improve the product and this document at any time without prior notice.

Record the model and serial numbers as well as date and place of purchase for future reference. Have this information available when ordering parts and when making technical or warranty inquiries.

Champion Power Equipment Support
1-877-338-0999
Model Number
66520
Serial Number
Date of Purchase
Purchase Location

For **Oil Type** see 'Add Engine Oil' section. For **Fuel Type** see 'Add Fuel' section.

MANUAL CONVENTIONS

This manual uses the following symbols to help differentiate between different kinds of information. The safety symbol is used with a key word to alert you to potential hazards in operating and owning power equipment.
Follow all safety messages to avoid or reduce the risk of serious injury or death.

DANGER

DANGER indicates an imminently hazardous situation which, if not avoided, ***will*** result in death or serious injury.

WARNING

WARNING indicates a potentially hazardous situation which, if not avoided, ***could*** result in death or serious injury.

CAUTION

CAUTION indicates a potentially hazardous situation which, if not avoided, ***may*** result in minor or moderate injury.

CAUTION

CAUTION used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, ***may*** result in property damage.

NOTE

If you have questions regarding your semi-trash pump, we can help. Please call our help line at **1-877-338-0999**

SAFETY RULES

⚠ WARNING

Read this manual thoroughly before operating your semi-trash pump. Failure to follow instructions could result in serious injury or death.

⚠ DANGER

DO NOT pump gasoline and fuel oil mixtures, detergents, acids, chemicals, beverages, pesticides, fertilizers or any other flammable liquid or corrosive.

Pumping volatile liquids may result in an explosion or fire. These liquids will corrode the pump and void your warranty.

⚠ WARNING

The engine exhaust from this product contains chemicals known to the state of California to cause cancer, birth defects, or other reproductive harm.

⚠ DANGER

Engine exhaust contains carbon monoxide, a colorless, odorless, poison gas. Breathing carbon monoxide will cause nausea, dizziness, fainting or death. If you start to feel dizzy or weak, get to fresh air immediately.

Operate semi-trash pump outdoors only in a well ventilated area DO NOT operate the semi-trash pump inside any building, enclosure or compartment.
DO NOT allow exhaust fumes to enter a confined area through windows, doors, vents or other openings.

⚠ DANGER

Rotating parts can entangle hands, feet, hair, clothing and/or accessories.
Traumatic amputation or severe laceration can result.

Keep hands and feet away from rotating parts. Tie up long hair and remove jewelry. Operate equipment with guards in place. DO NOT wear loose-fitting clothing, dangling drawstrings or items that could become caught.

⚠ DANGER

The semi-trash pump develops powerful force.

DO NOT move the semi-trash pump when it is in use. DO NOT use hoses or connectors that are worn, damaged or frayed. DO NOT allow children or unqualified persons to operate or service the semi-trash pump. DO NOT open top plug or drain plug.

⚠ WARNING

DO NOT immerse this unit in water.

⚠ WARNING

Sparks can result in fire or electrical shock.

When servicing the semi-trash pump:
Disconnect the spark plug wire and place it where it cannot contact the plug. DO NOT check for spark with the plug removed. Use only approved spark plug testers.

SAFETY RULES

⚠ DANGER

Fuel and fuel vapors are highly flammable and extremely explosive.
Fire or explosion can cause severe burns or death.
Unintentional startup can result in entanglement, traumatic amputation or laceration.

When adding or removing fuel:
Turn the engine off and let it cool for at least two minutes before removing the fuel cap. Loosen the cap slowly to relieve pressure in the tank.
Only fill or drain fuel outdoors in a well-ventilated area.
DO NOT pump gas directly into the engine at the gas station. Use an approved container to transfer the fuel to the engine.
DO NOT overfill the fuel tank.
Always keep fuel away from sparks, open flames, pilot lights, heat and other sources of ignition.
DO NOT light or smoke cigarettes.

When starting the engine:
DO NOT attempt to start a damaged engine. Make certain that the gas cap, air filter, spark plug, fuel lines and exhaust system are properly in place. Allow spilled fuel to evaporate fully before attempting to start the engine.
Make certain that the semi-trash pump is resting firmly on level ground.

When operating the semi-trash pump:
DO NOT move or tip the semi-trash pump during operation.
DO NOT tip the semi-trash pump or allow fuel or oil to spill from the engine. Block the wheels to prevent unintended movement.

When transporting or servicing the semi-trash pump:
Make certain that the fuel shutoff valve is in the off position and the fuel tank is empty.

Disconnect the spark plug wire.

When storing the semi-trash pump:
Store away from sparks, open flames, pilot lights, heat and other sources of ignition.

⚠ WARNING

Water pumped through this unit shall not be used as drinking water.

⚠ WARNING

DO NOT pump salt, sludge, sewer, sea, or any other type of water containing solid material.

⚠ WARNING

Rapid retraction of the starter cord will pull hand and arm towards the engine faster than you can let go.
Unintentional startup can result in entanglement, traumatic amputation or laceration.
Broken bones, fractures, bruises or sprains could result.

When starting engine, pull the starter cord slowly until resistance is felt and then pull rapidly to avoid kickback.

ⓘ CAUTION

Exceeding the semi-trash pump's specification for maximum head can damage the semi-trash pump and/or hose kits connected to it.

DO NOT modify the semi-trash pump in any way. DO NOT attempt to exceed the rated flow. Attempting to increase the rated flow may damage the unit and/or shorten its life.

ⓘ CAUTION

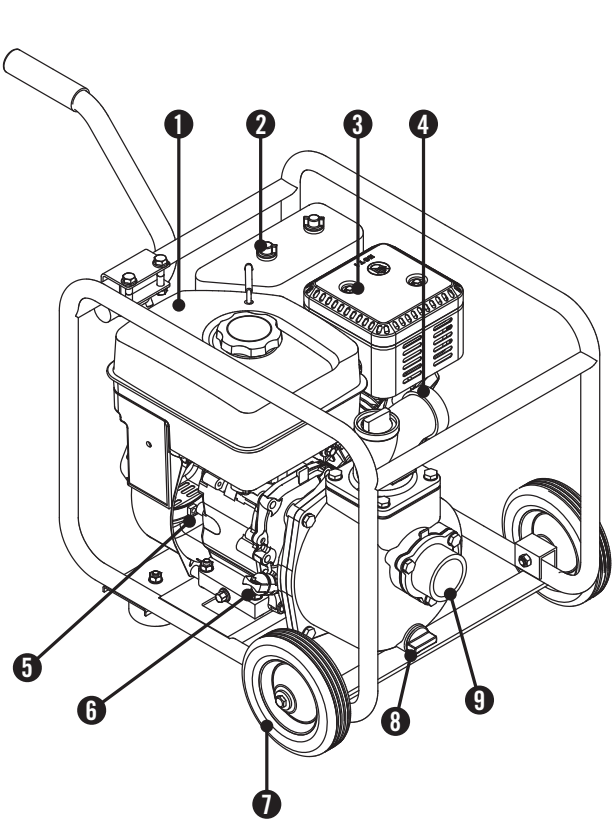
Improper treatment or use of the semi-trash pump can damage it, shorten its life and void your warranty.

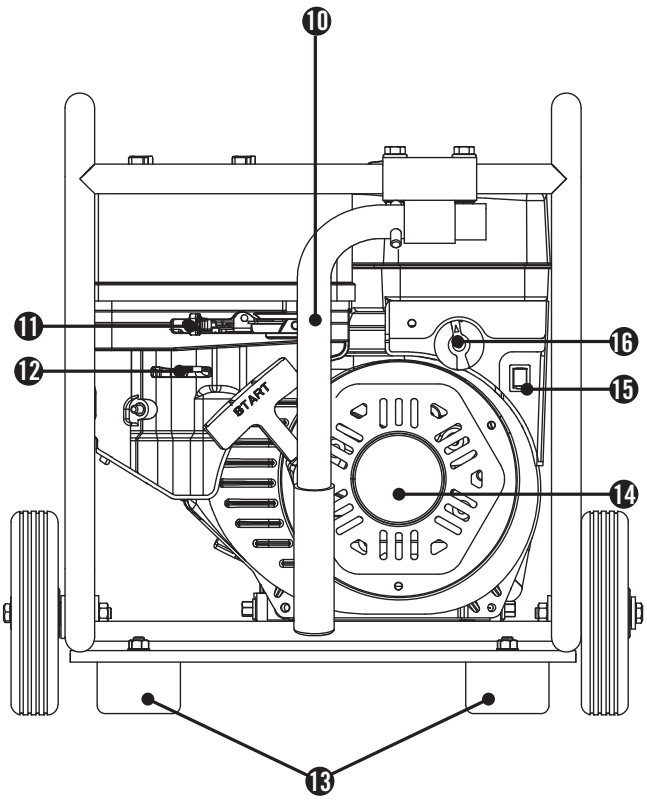
Use the semi-trash pump only for intended uses. Operate only on level surfaces. DO NOT expose semi-trash pump to excessive moisture, dust, or dirt. DO NOT allow any material to block the cooling slots. DO NOT use the semi-trash pump if:
- Equipment sparks, smokes or emits flames
- Equipment vibrates excessively

CONTROLS AND FEATURES

Read this owner's manual before operating your semi-trash pump. Familiarize yourself with the location and function of the controls and features. Save this manual for future reference.

Semi-Trash Pump





(1) Fuel Tank – 0.9 gallon (3.4 L) capacity fuel tank.

(2) Air Filter – Protects the engine by filtering dust and debris from the air intake.

(3) Muffler

(4) 2 in. (5 cm) Outlet – 2 in. (5 cm) NPT outlet connector.

(5) Low Oil Sensor – Senses the level of oil in the crankcase and shuts the engine down if the level falls too low.

(6) Oil Filler Cap – Check and fill engine oil level.

(7) 6 in. (15.24 cm) Never Flat Wheels

(8) Drain Plug

(9) 2 in. (5 cm) Inlet – 2 in. (5 cm) NPT inlet connector.

(10) Handle

(11) Throttle – Used to adjust engine speed.

(12) Choke lever– Used to start the engine.

(13) Anti-Vibration Mounts

(14) Recoil Starter – Used to start the engine.

(15) Engine Switch – Used to start the engine.

(16) Fuel Valve – Used to turn fuel supply on and off to engine.

CONTROLS AND FEATURES

Parts Included

Your Model 66520 Gasoline Powered semi-trash pump ships with the following parts:

Wheel Kit

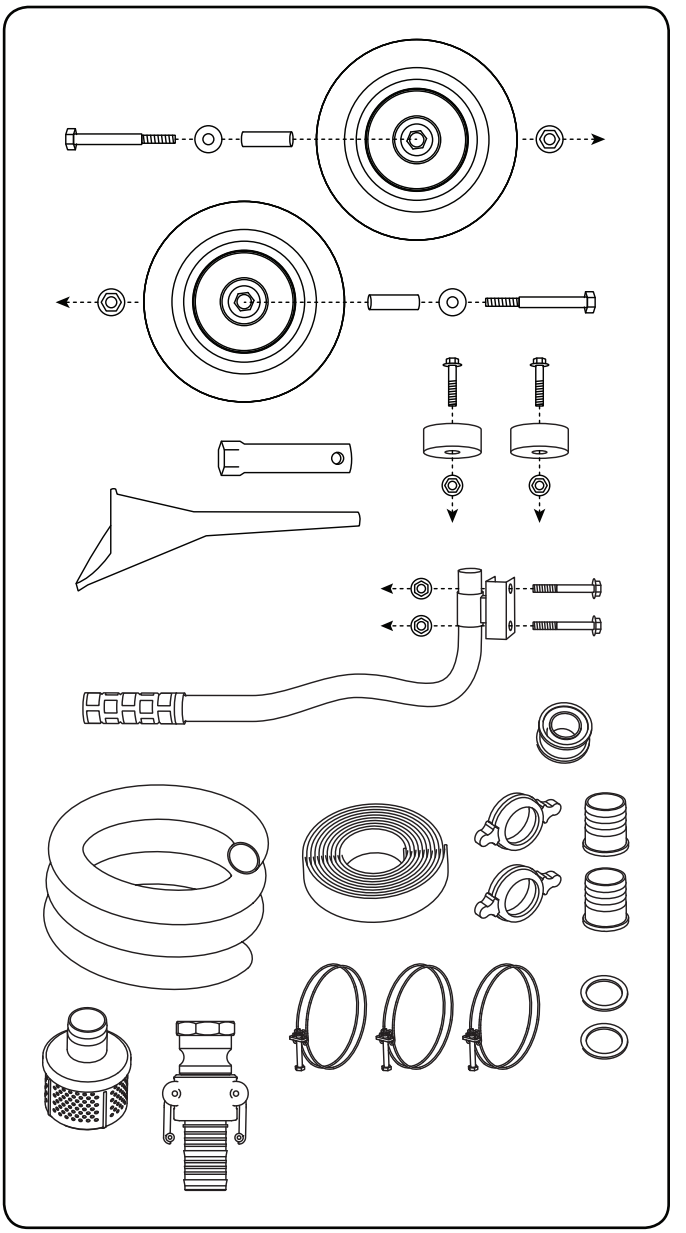
- 6 in. (15.24 cm) Wheel 2
- Vibration Mounts 2
- Bushing 2
- Handle 1
- Flange Bolt (M8x75 for Wheel) 2
- Flange Bolt (M8x45 for Handle) 2
- Flange Bolt (M8x25 for Vibration Mounts) 2
- Lock Nut (M8) 2
- Flat Washer 8 mm 2
- Nut (M8) 4

Hose Kit

- 12 ft. (3.7 m) Rigid Intake Hose 1
- 20 ft. (6.1 m) Collapsible Outlet Hose 1
- Teflon Tape 1
- Clamp 3
- Outlet Hose Adapter 2
- Gasket 2
- Outlet Hose Fitting 2
- Strainer 1
- Cam Lock Coupler 1

Other

- Spark Plug Socket 1
- Oil Funnel 1



ASSEMBLY

Your semi-trash pump requires some assembly. This unit ships from our factory without oil. It must be properly serviced with fuel and oil before operation.
If you have any questions regarding the assembly of your semi-trash pump, call our help line at 1-877-338-0999. Please have your serial number and model number available.

Remove the Semi-Trash Pump from the Shipping Carton

1. Set the shipping carton on a solid, flat surface.
2. Remove everything from the carton except the semi-trash pump.
3. Carefully cut each corner of the box from top to bottom.

Install the Wheel Kit

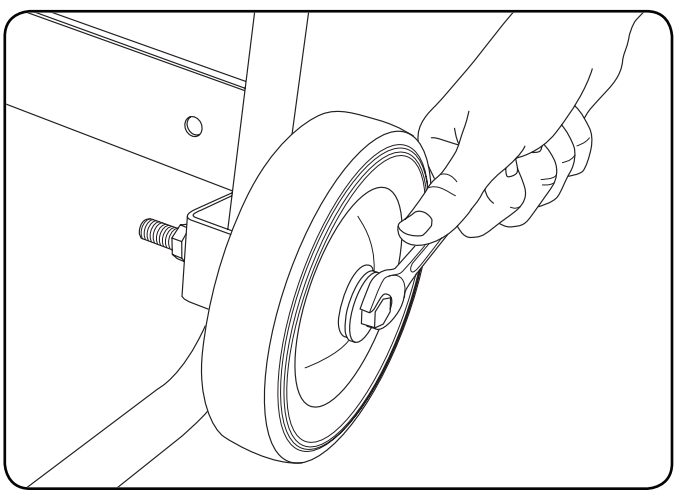
⚠ CAUTION

The wheel kit is not intended for over-the-road use.

You will need the following tools to install the wheels:

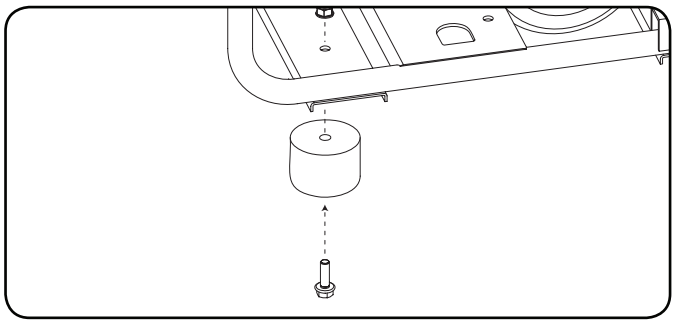
- 12 mm wrench OR adjustable wrench (not included)
- Socket wrench with a 12 mm socket (not included)

1. Slide the M8x75 wheel bolt through the washer, sleeve and wheel.
2. Slide the bolt through the mount point on the frame.
3. Fasten securely with the M8 nut.
4. Repeat steps 1-3 to attach the second wheel.



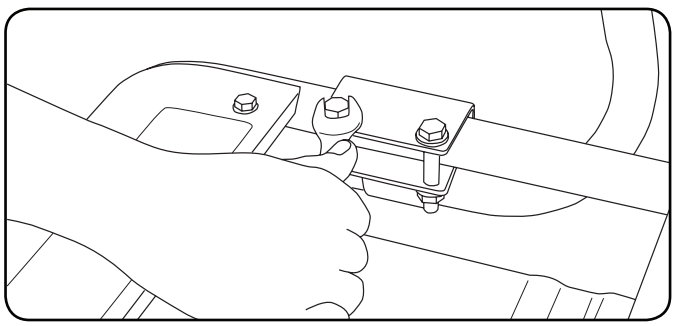
Install the Vibration Mounts

1. Attach the rubber vibration mount to the frame cross member using a cap screw (M8x25) and lock nut (M8).
2. Thread the cap screw through the vibration mount and the frame.
3. Secure with lock nut. Tighten, but DO NOT over tighten.
4. Repeat steps 1-3 for second mount.



Install the Handle

1. Place the handle over the mounting channel on the frame.
2. Secure the handle to the frame using the two handle bolts (M8x45).
3. Place a lock nut (M8) on the end of each bolt and fasten securely. DO NOT over tighten the lock nuts.



Add Engine Oil

⚠ CAUTION

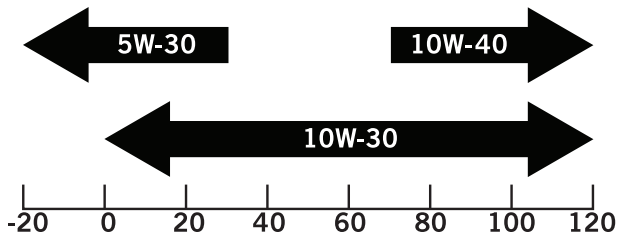
DO NOT attempt to crank or start the engine before it has been properly filled with the recommended type and amount of oil. Damage to the semi-trash pump as a result of failure to follow these instructions will void your warranty.

NOTE

The recommended oil type is 10W-30 automotive oil.

Add Engine Oil Cont'd.

1. Place the semi-trash pump on a flat, level surface.
2. Remove oil fill cap/dipstick to add oil.
3. Add up to 0.63 qt (0.6 L) of oil and replace oil fill cap/dipstick. DO NOT OVERFILL.
4. Check engine oil level daily and add as needed.



CAUTION

The engine is equipped with a low oil shut-off and will stop when the oil level in the crankcase falls below the threshold level.

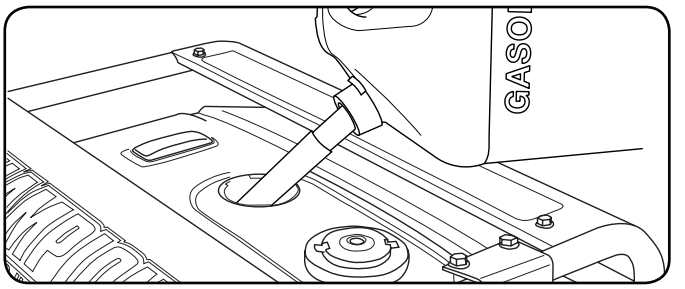
NOTE

Check oil often during the break-in period. Refer to the Maintenance section for recommended service intervals.

Add Fuel

1. Use clean, fresh, regular unleaded fuel with a minimum octane rating of 85 and an ethanol content of less than 10% by volume.
2. DO NOT mix oil with fuel.
3. Clean the area around the fuel cap.
4. Remove the fuel cap.
5. Slowly add fuel to the tank. DO NOT OVERFILL. Fuel can expand after filling. A minimum of ¼ in. (0.64 cm) of space left in the tank is required for fuel expansion, more than ¼ in. (0.64 cm) is recommended. Fuel can be forced out of the tank as a result of expansion if it is overfilled, and can affect the stable running condition of the product. When filling the tank, it is recommended to leave enough space for the fuel to expand.
6. Screw on the fuel cap and wipe away any spilled fuel.

Add Fuel Cont'd.



CAUTION

Use regular unleaded gasoline with a minimum octane rating of 85.

Do not mix oil and gasoline.
Fill tank to approximately ¼ in. (0.64 cm) below the top of the tank to allow for fuel expansion.
DO NOT pump gas directly into the generator at the gas station. Use an approved container to transfer the fuel to the generator.
DO NOT fill fuel tank indoors.
DO NOT fill fuel tank when the engine is running or hot.
DO NOT overfill the fuel tank.
DO NOT light cigarettes or smoke when filling the fuel tank.

WARNING

Pouring fuel too fast through the fuel screen may result in blow back of fuel at the operator while filling.

NOTE

Our engines work well with 10% or less ethanol blend fuels. When using blended fuels there are some issues worth noting:

- Ethanol-gasoline blends can absorb more water than gasoline alone.
- These blends can eventually separate, leaving water or a watery goo in the tank, fuel valve and carburetor.
- With gravity-fed fuel supplies, this compromised fuel can be drawn into the carburetor and cause damage to the engine and/or potential hazards.
- There are only a few suppliers of fuel stabilizer that are formulated to work with ethanol blend fuels.
- Any damages or hazards caused by using improper fuel, improperly stored fuel, and/or improperly formulated stabilizers, are not covered by manufacture's warranty.

It is advisable to always shut off the fuel supply, run the engine to fuel starvation and drain the tank when the equipment is not in use for more than 30 days.

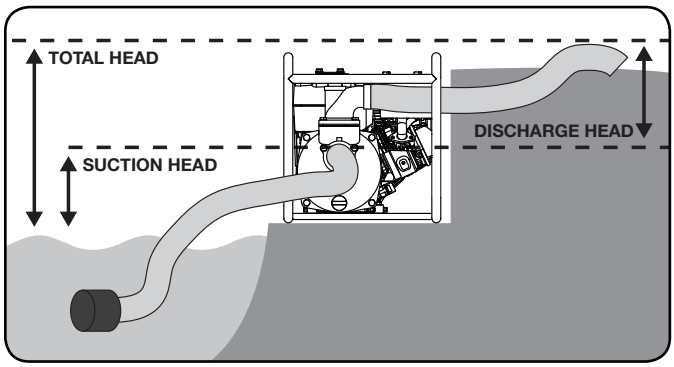
OPERATION

Semi-Trash Pump Location

Place the semi-trash pump in a well ventilated area. DO NOT place the semi-trash pump near vents or intakes where exhaust fumes could be drawn into occupied or confined spaces. Carefully consider wind and air currents when positioning semi-trash pump.

This semi-trash pump must have at least 5 ft. (1.5 m) of clearance from combustible material. Leave at least 3 ft. (0.91 m) of clearance on all sides of the semi-trash pump to allow for adequate cooling, maintenance and servicing.

Place the pump on a level surface free from any obstructions or potential hazards. The pump should be placed close to the water level to ensure maximum pump performance.



Pump output will be affected by the type, length, and size of the suction and discharge hoses. The pumping height, also known as the total head, is the distance from the water level to the point of discharge. As this distance increases, pump output decreases. The discharge capacity is greater than the suction capacity. Therefore, it is important that the suction head is less than the discharge head.

The time required to draw water from the source to the pump (self-priming time) can be decreased by minimizing the suction head.

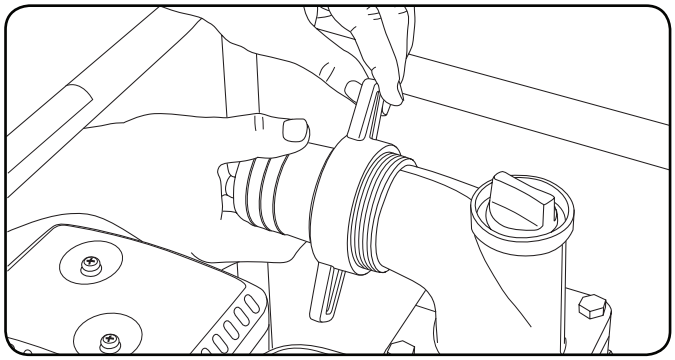
Connecting a Hose Kit

NOTE

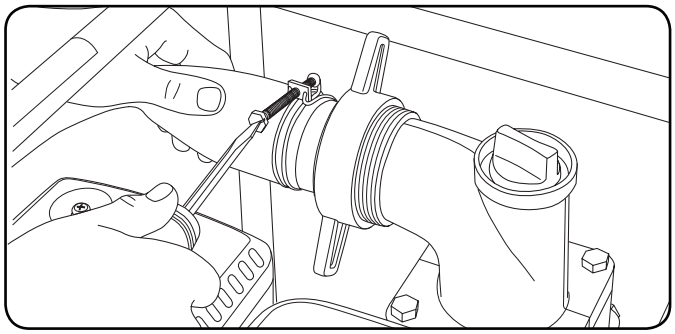
Both the intake and discharge ports are 2 in. NPT. Please insure the connectors to the suction and discharge hose are 2 in. NPT threaded.

1. Attach and thread the connector to the threaded flange.

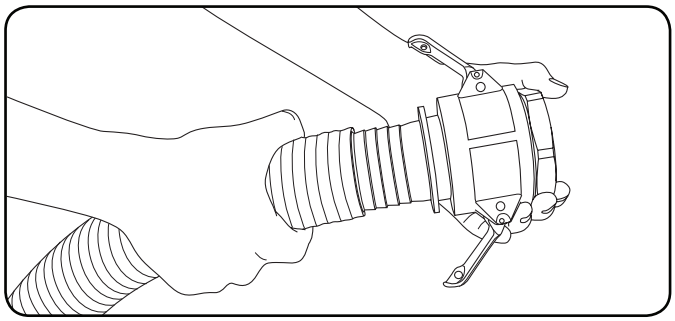
Connecting a Host Kit Cont'd.



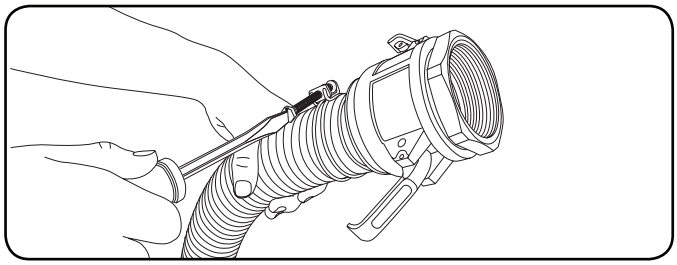
2. Slide the flexible, outlet hose over connector and secure with the hose clamp.



3. Insert quick coupler in the rigid suction hose.

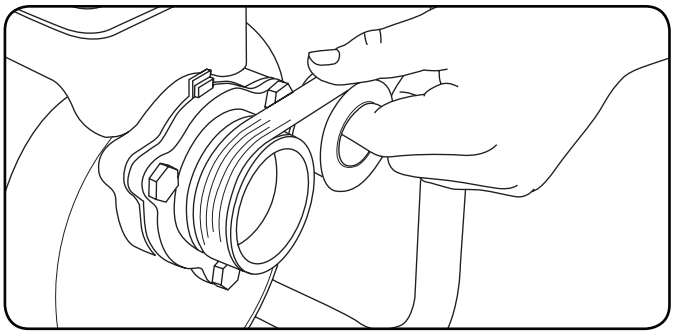


4. Fasten the quick coupler to the suction hose with the hose clamp.

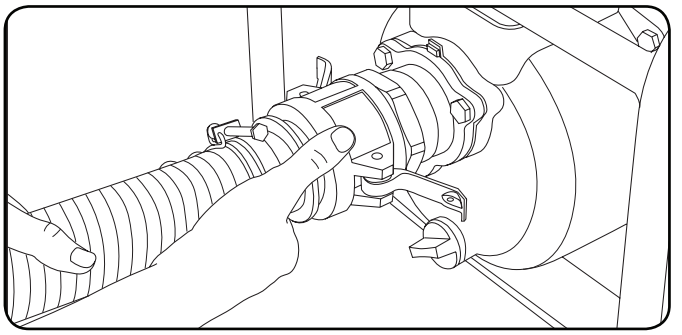


5. Wrap the 2 in. (5 cm) NPT inlet clockwise with the Teflon tape provided. Carefully thread the male connector to the intake port.

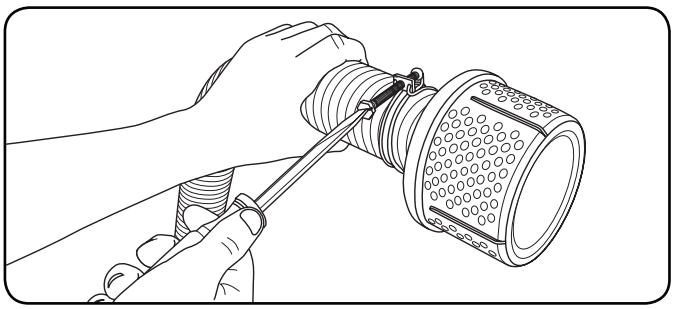
Connecting a Host Kit Cont'd.



6. Attach the quick coupler to the male coupler and lock in place with the cam lock.



7. Attach the strainer to the intake hose and secure with the hose clamp.



8. Remove the top cap from the pump chamber and completely fill the chamber with clean water. Tighten the cap. DO NOT over tighten.

⚠ WARNING

DO NOT run the pump dry.

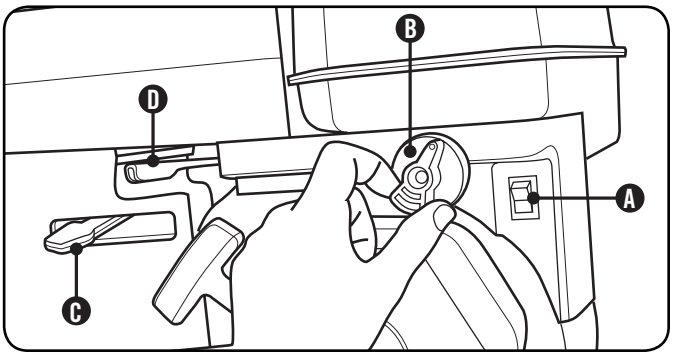
Running the pump dry can destroy the pump seals and will void the warranty. If the pump was running while dry, stop the engine and allow it to cool thoroughly before filling the chamber with water.

Starting the Engine

1. Make certain the semi-trash pump is on a flat, level surface.
2. Flip engine switch (A) to "ON" position.

Starting the Engine Cont'd.

3. Rotate the fuel valve (B) to the "ON" position.
4. Move the choke lever (C) to the "Choke" position.
5. Pull the starter cord slowly until resistance is felt and then pull rapidly.
6. As engine warms up, move the choke lever (C) to "Run".
7. Move the throttle lever (D) to the "Fast" position.



NOTE

If the engine starts but does not run make certain that the semi-trash pump is on a flat, level surface. The engine is equipped with a low oil sensor that will prevent the engine from running when the oil level falls below a critical threshold.

NOTE

Keep choke lever in "Choke" position for 2 pulls of the recoil starter. After 2 pulls, move choke lever to the "Run" position for up to the next 3 pulls of the recoil starter. Too much choke leads to spark plug fouling/engine flooding due to the lack of incoming air. This will cause the engine not to start.

Pump performance can be adjusted using the throttle. To decrease pump output, slide the throttle to the right. To increase it, slide the throttle to the left.

Stopping the Engine

1. Turn the engine switch to the "Off" position.
2. Rotate the fuel valve to the "Off" position.
3. Allow the engine to cool thoroughly.
4. Remove the drain plug from the cooling pump chamber and allow pump to drain completely.

⚠ WARNING

DO NOT remove either top, or drain (bottom) plugs while the semi-trash pump is on and running

Loss of pressure and suction will occur. Injury may also occur.

OPERATION

Operation at High Altitude

The density of air at high altitude is lower than at sea level. Engine power is reduced as the air mass and air-fuel ratio decrease. Engine power and generator output will be reduced approximately 3½% for every 1000 feet of elevation above sea level. This is a natural trend and cannot be changed by adjusting the engine. At high altitudes increased exhaust emissions can also result due to the increased enrichment of the air fuel ratio. Other high altitude issues can include hard starting, increased fuel consumption and spark plug fouling.

To alleviate high altitude issues other than the natural power loss, Champion Power Equipment can provide a high altitude carburetor main jet. The alternative main jet and installation instructions can be obtained by contacting Customer Support. Installation instructions are also available in the Technical Bulletin area of the Champion Power Equipment internet site.

The part number and recommended minimum altitude for the application of the high altitude carburetor main jet is listed in the table below.

In order to select the correct high altitude main jet it is necessary to identify the carburetor model. For this purpose, a code is stamped on the side of the carburetor. Select the correct main jet part number corresponding to the carburetor code found on your particular carburetor.

Carburetor Code	Main Jet	Part Number	Altitude
P19-1-R	Standard	26.131017.00.R	3500 Feet (1067 Meters)
	Altitude	26.131017.00.01.R	
P19-1-Z	Standard	26.131017.00.Z	
	Altitude	26.131017.00.01.Z	

⚠WARNING

Operation using the alternative main jet at elevations lower than the recommended minimum altitude can damage the engine. For operation at lower elevations, the standard main jet must be used. Operating the engine with the wrong engine configuration at a given altitude may increase its emissions and decrease fuel efficiency and performance.

MAINTENANCE AND STORAGE

The owner/operator is responsible for all periodic maintenance.

⚠WARNING

Never operate a damaged or defective semi-trash pump.

⚠WARNING

Improper maintenance will void your warranty.

NOTE

Maintenance, replacement, or repair of emission control devices and systems may be performed by any non-road engine repair establishment or individual.

Complete all scheduled maintenance in a timely manner. Correct any issue before operating the semi-trash pump.

NOTE

For service or parts assistance, contact our help line at **1-877-338-0999**.

Engine Maintenance

To prevent accidental starting, remove and ground spark plug wire before performing any service.

Oil

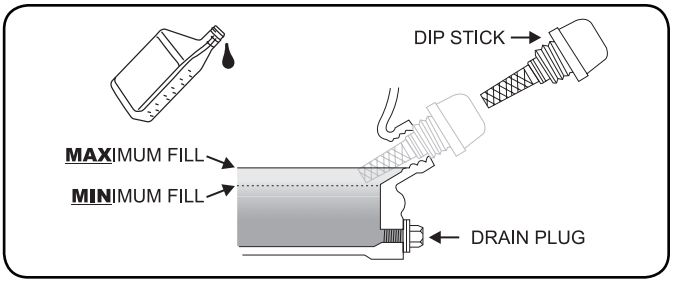
Change oil when the engine is warm. Refer to the oil specification to select the proper grade of oil for your operating environment.

1. Remove the oil drain plug with a 12 mm socket and extension.
2. Allow the oil to drain completely.
3. Replace the drain plug.
4. Remove oil fill cap/dipstick to add oil.
5. Add up to 0.63 qt (0.6 L) of oil and replace oil fill cap/dipstick. DO NOT OVERFILL.
6. Dispose of used oil at an approved waste management facility.

NOTE

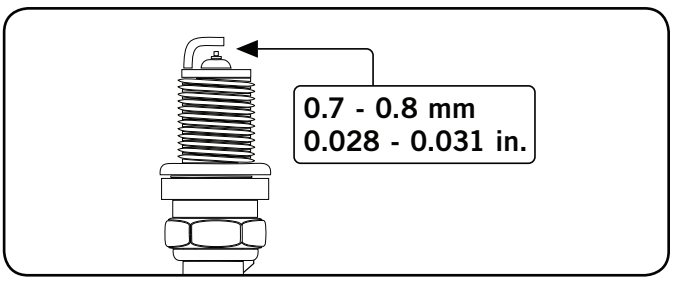
Once oil has been added, a visual check should show oil about 1-2 threads from running out of the fill hole. If using the dipstick to check oil level, DO NOT screw in the dipstick while checking.

Oil Cont'd.



Spark Plugs

1. Remove the spark plug cable from the spark plug.
2. Use the spark plug tool that shipped with your semi-trash pump to remove the plug.
3. Inspect the electrode on the plug. It must be clean and not worn to produce the spark required for ignition.
4. Make certain the spark plug gap is 0.7 - 0.8 mm or (0.028 - 0.031 in.).



5. Refer to the spark plug recommendation chart when replacing the plug.
6. Carefully thread the plug into the engine.
7. Use the spark plug tool to firmly install the plug.
8. Attach the spark plug wire to the plug.

Air Filter

1. Unscrew wing nut to remove the air filter cover.
2. Remove the foam element.
3. Wash in liquid detergent and water. Squeeze thoroughly dry in a clean cloth.
4. Saturate in clean engine oil.
5. Squeeze in a clean, absorbent cloth to remove all excess oil.
6. Reassemble the element.
7. Reattach the air filter cover and tighten wing nut.

MAINTENANCE AND STORAGE

Cleaning

⚠ CAUTION

DO NOT spray engine with water.

Water can contaminate the fuel system.

Use a damp cloth to clean exterior surfaces of the engine.
Use a soft bristle brush to remove dirt and oil.
Use an air compressor (25 PSI) to clear dirt and debris from the engine.

Adjustments

The air-fuel mixture is not adjustable. Tampering with the governor can damage your semi-trash pump and your electrical devices and will void your warranty. CPE recommends that you contact our service line at **1-877-338-0999** for all other service and/or adjustment needs.

Maintenance Schedule

Follow the service intervals indicated in the following maintenance schedule.
Service your semi-trash pump more frequently when operating in adverse conditions.
Contact our help line at **1-877-338-0999** to locate the nearest Champion Power Equipment certified service dealer for your semi-trash pump or engine maintenance needs.

Every 8 hours or daily	
	Check oil level
	Clean around air intake and muffler
First 5 Hours	
	Change oil
Every 50 hours or every season	
	Clean air filter
	Change oil if operating under heavy load or in hot environments
Every 100 hours or every season	
	Change oil
	Clean/Adjust spark plug
	Check/Adjust valve clearance*
	Clean spark arrester
	Clean fuel tank and filter*
Every 250 hours	
	Clean combustion chamber*
Every 3 years	
	Replace fuel line

*To be performed by knowledgeable, experienced owners or Champion Power Equipment certified dealers.

Storage

For longer term storage, please follow these guidelines.

Engine Storage

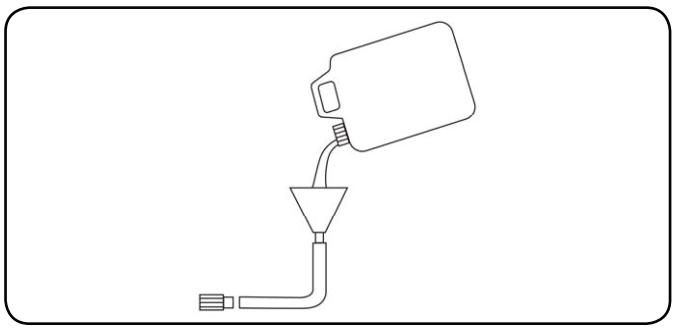
1. Allow the engine to cool completely before storage.
2. Clean the engine according to the instructions in the Maintenance section.
3. Drain all fuel completely from the fuel line and carburetor to prevent gum from forming.
4. Add a fuel stabilizer into the fuel tank.
5. Change the oil.
6. Remove the spark plug and pour about ½ ounce of oil into the cylinder. Crank the engine slowly to distribute the oil and lubricate the cylinder.
7. Reattach the spark plug.

Semi-Trash Pump Storage

1. Allow the semi-trash pump to cool completely before storage.
2. Turn off the fuel supply at the fuel valve.
3. Drain the pump chamber thoroughly.
4. Clean the semi-trash pump according to the instructions in the Maintenance section.
5. Once the pump is dry, spray WD-40 or similar product into the pump housing through all ports and drainage hole.
6. Store in a clean, dry place out of direct sunlight.

Winter Storage

Protect your semi-trash pump parts from freezing.
1. Apply all storage instructions from previous sections.
2. Make sure semi-trash pump hose is free of all water before storing for winter.
3. In order to prevent the pump from freezing you will need to insert RV antifreeze.
4. You will need approximately 6 ounces of RV Antifreeze, a funnel, and approximately 12” of garden hose or equivalent. See diagram below.



5. Pour the antifreeze into the funnel, then pull on the engine recoil starter to create suction in the pump housing. Pull the recoil several times until antifreeze comes out of the pump outlet.

SPECIFICATIONS

Engine Specifications

- Model YF168F-2-000
- Displacement 196cc
- Type . . . . . 4-Stroke OHV
- Start Type . . . . . Recoil

Semi-Trash Pump Specifications

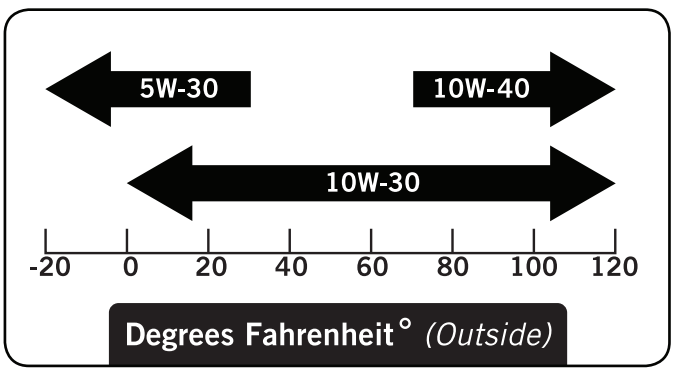
- Model 66520
- Inlet Diameter . . . . . 2 inch NPT
- Outlet Diameter . . . . . 2 inch NPT
- Fuel Capacity . . . . . 0.9 gallons (3.4 L)
- Total Head . . . . . 98 feet (30 m)
- Suction Head . . . . . 26 feet (8 m)
- Max Delivery Volume . . . . . 158 gal/min (598 L/min)
- Max Solid Waste . . . . . 9/16 in. diameter (1.42 cm)
- Gross Weight . . . . . 86 lbs. (39 kg)
- Net Weight . . . . . 76.1 lbs. (34.5 kg)
- Height . . . . . 18.2 in. (46.3 cm)
- Width . . . . . 18.8 in. (47.7 cm)
- Length . . . . . 24.8 in. (63 cm)

Fuel

Fuel capacity is 0.9 gallons (3.4 L). Use regular unleaded gasoline with a minimum octane rating of 85 and an ethanol content of no more than 10% by volume.

Oil

Use 10W-30 automotive oil.
Oil capacity is 0.63 qt qt (0.6 L).
DO NOT OVERFILL.
Please reference the following chart for recommended oil types for use in the semi-trash pump.



Spark Plugs

OEM spark plug: NHSP F6RTC
Replacement spark plug: NGK BPR6ES or equivalent
Make certain the spark plug gap is 0.7 - 0.8 mm or (0.028 - 0.031 in.).

Maintenance Valve Clearance

- Intake: 0.13 – 0.17 mm (0.005 – 0.007 in.)
- Exhaust: 0.18 – 0.22 mm (0.007 – 0.009 in.)

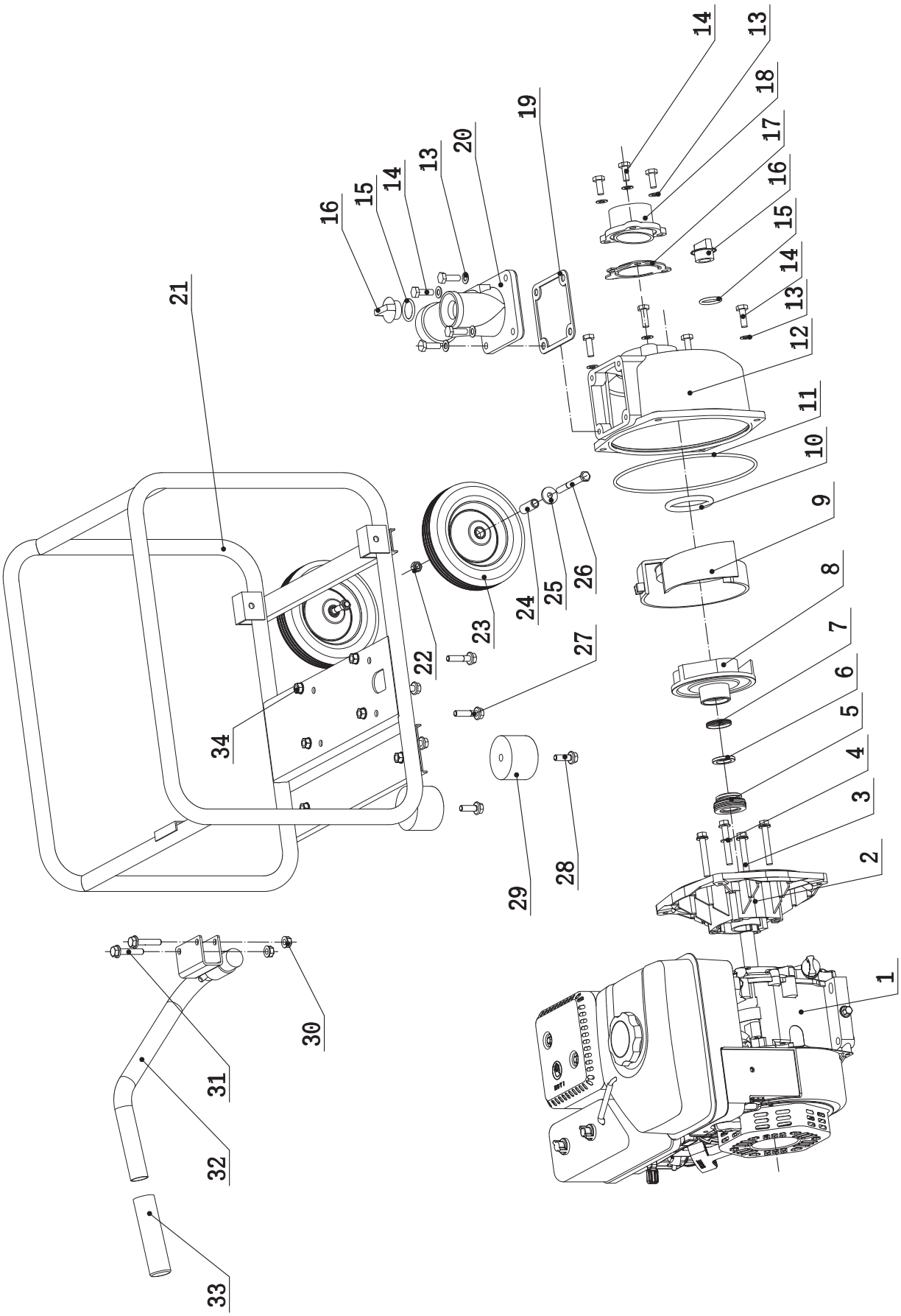
Note: Tech bulletin regarding the valve adjustment procedure is on www.championpowerequipment.com.

An Important Message About Temperature

Your Champion Power Equipment product is designed and rated for continuous operation at ambient temperatures up to 40°C (104°F). When your product is needed your product may be operated at temperatures ranging from -15°C (5°F) to 50°C (122°F) for short periods. If the product is exposed to temperatures outside this range during storage, it should be brought back within this range before operation. In any event, the product must always be operated outdoors, in a well-ventilated area and away from doors, windows and other vents.

SPECIFICATIONS

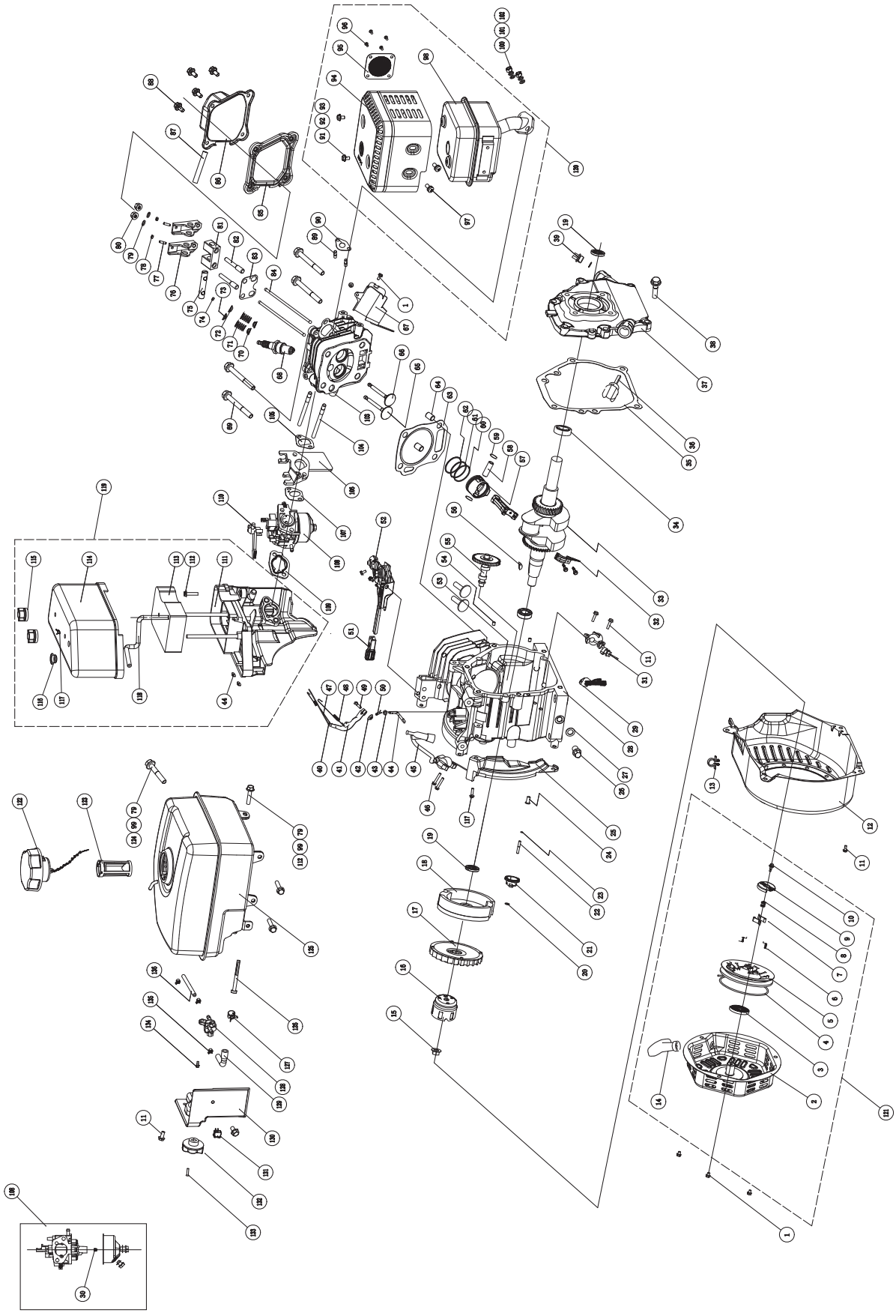
Parts Diagram



#	Part Number	Description	Qty
1	26.103	Engine	1
2	202.251303.00	Base,Pump	1
3	1.5789.0855	Flange Bolt M8×55	4
4	202.251002.00	Washer Ø8,Copper	4
5	202.250300.00	Water Seal	1
6	202.251301.00	Friction-Piece	1
7	202.251302.00	Seal,Friction-Piece	1
8	202.251106.00	Impeller	1
9	202.251202.00	Cover,Impeller	1
10	202.251203.00	Seal,Cover(53×7)	1
11	202.251111.00	Seal,Base Pump	1
12	202.251101.00	Body,Pump	1
13	1.97.1.08	Washer Ø8	11
14	1.5783.0820	Bolt M8×20	7
15	202.251403.00	Seal,Plug(23.6×3.55)	2
16	202.251401.00	Plug	2
17	202.251105.00	Valve,One Way	1
18	202.251104.02	Flange,Inlet	1
19	202.251103.00	Seal,Outlet Flange	1
20	202.251102.02	Flange,Outlet	1
21	6.1.098.2	Frame	1
22	1.6184.08	Nut M8	2
23	122.201701.00.48	6in Wheel	2
24	202.200016.00	Bush(Ø12.7×Ø8.5×35)	2
25	1.96.08	Washer Ø8	2
26	1.5782.0875	Bolt M8×75	2
27	1.5789.0835	Flange Bolt M8×35	4
28	1.5789.0825	Flange Bolt M8×25	2
29	252.201400.00	Rubber	2
30	1.6177.08	Nut M8	8
31	1.5789.0845	Flange Bolt M8×45	2
32	202.200700.01	Handle	1
33	152.200702.00	Cover,Handle	1
34	1.6187.1.08	Nut M8	4

SPECIFICATIONS

Engine Parts Diagram



#	Part Number	Description	Qty
1	1.5789.0608	Flange Bolt M6×8	5
2	22.061100.00.02	Recoil Starter Cover	1
3	21.061005.00	Recoil Starter Spring	1
4	2.10.003	Rope(Φ5×1550Φ	1
5	21.061001.01	Recoil Starter Reel	1
6	45.060003.00	Spring,Ratchet	2
7	45.060002.00	Starter Ratchet(Iron)	2
8	45.060009.00	Spring,Ratchet Guide	1
9	45.060007.00	Ratchet Guide	1
10	45.060008.00	Screw, Ratchet Guide	1
11	1.5789.0612	Flange Bolt M6×12	10
12	24.080100.01.48	Fan Cover	1
13	2.05.002	Clamp(Φ9.5×5)	1
14	21.061300.00	Handle (soft)	1
15	2.02.006	Nut (M14×1.5)	1
16	21.060001.01	Pulley, Starter	1
17	23.080001.00	Cooling Fan	1
18	24.120100.02	Flywheel(EPAΦ	1
19	2.11.001	Oil Seal (Φ25×Φ41.3×6Φ	2
20	2.03.020.1	Washer(Φ5.2×Φ15×0.5Φ	1
21	21.110100.00	Gear, Governor	1
22	21.110013.00	Shaft,Gov.,Gear	1
23	21.110011.00	Clip, Gov.,Gear	1
24	21.110012.01	Bushing, Govorner Gear	1
25	23.080600.00	Air Guide,Right	1
26	2.08.037	Bolt, Drain (M10×1.25×25Φ	2
27	2.03.016	Washer, Drain Bolt(Φ10×Φ16×1.5Φ	2
28	26.030100.00	Crankcase	1
29	21.120400.01	Diode Assembly	1
30	26.131017.00	Standard Main Jet	1
	26.131017.00.01	Altitude Main Jet	/
31	21.127000.01	Oil Level Sensor	1
32	23.050200.00	Connecting Rod	1
33	25.050100.02	Crankshaft(P)	1
34	1.276.6205	Bearing 6205	2
35	24.030008.00	Gasket, Crankcase Cover(No Asbestos)	1
36	22.031000.00	Oil Dipstick Assy.	1
37	24.030007.00	Cover, Crankcase	1
38	1.5789.0832.0.8	Flange Bolt (M8×32Φ	6
39	22.031000.01	Oil Filler Cap	1
40	23.110005.01	Spring, Throttle Return	1
41	21.110003.00	Arm, Governor	1
42	1.6177.06	Nut M6	3
43	2.03.021.1	Washer(Φ6.4×Φ13×1Φ	1
44	21.110001.00	Shaft, Governor Arm	1
45	22.123000.01	Ignition Coil(Shield(Φ	1
46	1.5789.0625	Flange Bolt M6×25	2
47	23.110006.00	Rod, Governor	1
48	23.110007.00	Spring, Governor	1
49	2.08.040	Bolt,Governor Arm(M6×21Φ	1
50	21.110008.00	Pin, Shaft	1
51	24.111008.01	Grip Sheath, Speed Governor	1
52	24.111000.01	Control Assembly	1
53	25.040013.00	Lifter, Valve	2
54	2.04.001	Dowel Pin(Φ9×14Φ	2
55	26.041000.01	Camshaft	1
56	2.14.012	Key(4×7.5×19)	1
57	26.050005.00	Piston	1
58	23.050003.00	Wrist Pin	1
59	2.09.001	Circlip (Φ18×Φ1)	2
60	26.050303.00	Ring, Oil	1
61	26.050302.00	Ring, Second Piston	1
62	26.050301.00	Ring,First Piston	1
63	26.030009.00	Gasket, Cylinder Head	1
64	2.04.003	Dowel Pin(Φ10×14Φ	2
65	23.040002.00	Valve, Intake	1
66	23.040006.00	Valve, Exhaust	1
67	26.080400.00	Air Guide, Lower	1
68	2.15.002(F6RTCΦ	Spark Plug(F6RTCΦ	1

#	Part Number	Description	Qty
69	1.5789.0855	Flange Bolt M8×55	4
70	23.040017.00	Oil Seal, Valve	2
71	21.040003.00	Spring, Valve	2
72	21.040007.00	Retainer, Exhaust Valve Spring(ApΦ	1
73	21.040001.00	Retainer, Intake Valve Spring(ApΦ	1
74	21.040008.00	Rotator, Exhaust Valve	1
75	24.040202.00	Shaft, Rocker Arm	1
76	22.040009.00	Rocker Arm, Intake Valve	2
77	22.040012.00	Screw, Valve Adjustment	2
78	21.040021.00	Nut,Lock	2
79	1.97.1.06	Washer (Φ6Φ	6
80	1.6177.1.06	Nut M6	2
81	24.040201.00	Retainer, Rocker Arm	1
82	23.040010.00	Bolt, Rocker Arm	2
83	24.040004.00	Guide Plate, Push Rod	1
84	23.040005.00	Push Rod	2
85	21.020002.01	Gasket, Cylinder Head Cover (CPE)	1
86	24.021000.00	Cylinder Head Cover(CPEΦ	1
87	21.020001.00	Breather Tube	1
88	1.5789.0615	Flange Bolt M6×15	4
89	2.01.010	Stud Bolt(M8×35Φ	2
90	26.100001.00	Ex Pipe Gasket	1
91	1.16674.0510	Flange Bolt M5×10	2
92	1.848.05	Washer Φ5	2
93	1.93.05	Spring Washer Φ5	2
94	24.101202.00	Muffler Protector	1
95	46.101300.05	Spark Arrester	1
96	1.818.0406	Bolt M4×6	4
97	1.9074.4.0510	Bolt M5×10	2
98	24.101000.00	Muffler Assembly	1
99	1.93.06	Lock washer Φ6	6
100	1.6175.08	Nut M8	2
101	1.848.08	Washer Φ8	2
102	1.93.08	Spring Washer Φ8	2
103	26.010100.00	Cylinder Head	1
104	2.01.009	Stud Bolt(M6×110Φ	2
105	24.130002.00	Gasket, Insulator(No Asbestos)	1
106	23.130001.00	Insulator, Carburetor	1
107	22.130003.00	Gasket,Carb.(No Asbestos)	1
108	26.131000.00	Carburetor	1
109	21.130004.00	Gasket, Air Cleaner	1
110	21.130100.00	Choke Handle	1
111	24.091100.01	Base, Air Cleaner	1
112	1.5789.0620	Flange Bolt M6×20	5
113	24.091003.02	Element, Air Cleaner	1
114	24.091200.02	Cover, Air Cleaner	1
115	24.091600.01	Screw cap, Air clean Cover	2
116	2.12.001	Buffer(Φ7.5×7.5Φ	1
117	2.06.006	Clip(Φ7×Φ1Φ	1
118	24.070014.02	Pipe,Reversal Valve	1
119	24.091000.02	Air Cleaner Assy.	1
120	24.101000.00	Muffler Assembly	1
121	22.061000.00	Recoil Assy.	1
122	24.070100.02	Fuel Tank Cap	1
123	81.070301.00	Fuel Filter	1
124	1.5789.0629	Flange bolt M6×29	1
125	24.071000.01	Fuel Tank	1
126	111.070300.01	Fuel Filter Comp	1
127	2.06.018	Clip(Φ10.5×b8)	1
128	24.070400.00	Fuel Valve	1
129	24.070011.01	Pipe, Fuel	1
130	24.070010.00	Fuel Tank Veil	1
131	5.1010.003.3	Flameout Switch	1
132	24.070001.00	Fuel Valve Knob	1
133	1.818.0412	Bolt M4×12	1
134	1.16674.0512.2	Flange Bolt M5×12	1
135	2.06.007	Clip Φ8	3
136	24.070011.00	Pipe, Fuel	1

TROUBLESHOOTING

Problem	Cause	Solution
Semi-trash pump will not start	No fuel	Add fuel
	Faulty spark plug	Replace spark plug
Semi-trash pump will not start; Semi-trash pump starts but runs roughly	Low oil level	Fill crankcase to the proper level; place semi-trash pump on a flat, level surface
	Choke in the wrong position	Adjust choke
	Spark plug wire loose	Attach wire to spark plug
Semi-trash pump shuts down during operation	Out of fuel	Fill fuel tank
	Low oil level	Fill crankcase to the proper level; place semi-trash pump on a flat, level surface
Semi-trash pump overheating or performing poorly	Strainer or hose clogged	Remove debris from strainer or hose
	Pump not primed	Re-prime pump
	Suction hose out of water	Place suction hose under the surface of the water
	Head limit exceeded	Relocate pump so suction head is less than discharge head (maximum 98 feet)
	Air leak	Tighten connectors and clamps or replace seal packing

For further technical support:

Technical Service
Mon – Fri 8:30 AM – 5:00 PM (PST/PDT)
Toll Free: 1-877-338-0999
tech@championpowerequipment.com

WARRANTY

CHAMPION POWER EQUIPMENT
1 YEAR LIMITED WARRANTY

Effective September 1, 2006. Replaces all undated warranties and all warranties dated before September 1, 2006.

Warranty Qualifications

Champion Power Equipment (CPE) will register this warranty upon receipt of your Warranty Registration Card and a copy of your sales receipt from one of CPE's retail locations as proof of purchase.
Please submit your warranty registration and your proof of purchase within ten (10) days of the date of purchase.

Repair/Replacement Warranty

CPE warrants to the original purchaser that the mechanical and electrical components will be free of defects in material and workmanship for a period of one (1) year from the original date of purchase (90 days for commercial & industrial use). Transportation charges on product submitted for repair or replacement under this warranty are the sole responsibility of the purchaser. This warranty applies only to the original purchaser and is not transferable.

Do Not Return The Unit To The Place Of Purchase

Contact CPE's Technical Service and CPE will troubleshoot any issue via phone or e-mail. If the problem is not corrected by this method, CPE will, at its option, authorize evaluation, repair or replacement of the defective part or component at a CPE Service Center. CPE will provide you with a case number for warranty service. Please keep it for future reference. Repairs or replacements without prior authorization, or at an unauthorized repair facility, will not be covered by this warranty.

Warranty Exclusions

This warranty does not cover the following repairs and equipment:

Normal Wear

Semi-trash pumps need periodic parts and service to perform well. This warranty does not cover repair when normal use has exhausted the life of a part or the equipment as a whole.

Installation, Use and Maintenance

This warranty will not apply to parts and/or labor if this semi-trash pump is deemed to have been misused, neglected, involved in an accident, abused, loaded beyond the semi-trash pump's limits, modified, installed improperly or connected incorrectly to any electrical component.

Installation, Use and Maintenance Cont'd.

Normal maintenance such as spark plugs, air filters, adjustments, fuel system cleaning and obstruction due to buildup is not covered by this warranty.

Other Exclusions

This warranty excludes:
- Cosmetic defects such as paint, decals, etc.
- Wear items such as filter elements, o-rings, etc.
- Accessory parts such as starting batteries, and storage covers.
- Failures to due acts of God and other force majeure events beyond the manufacturer's control.
- Problems caused by parts that are not original Champion Power Equipment parts.

This warranty does not apply to semi-trash pumps used for prime power in place of a utility.

Limits of Implied Warranty and Consequential Damage

Champion Power Equipment disclaims any obligation to cover any loss of time, use of this product, freight, or any incidental or consequential claim by anyone from using this semi-trash pump. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.
A unit provided as an exchange will be subject to the warranty of the original unit. The length of the warranty governing the exchanged unit will remain calculated by reference to the purchase date of the original unit.
This warranty gives you certain legal rights which may change from state to state. Your state may also have other rights you may be entitled to that are not listed within this warranty.

Contact Information

Address

Champion Power Equipment, Inc.
Customer Service
10006 Santa Fe Springs Rd.
Santa Fe Springs, CA 90670
www.championpowerequipment.com

Customer Service

Mon – Fri 8:30 AM – 5:00 PM (PST/PDT)
Toll Free: 1-877-338-0999
Fax no.: 1-562-236-9429

Technical Service

Mon – Fri 8:30 AM – 5:00 PM (PST/PDT)
Toll Free: 1-877-338-0999
tech@championpowerequipment.com
24/7 Tech Support: 1-562-204-1188

Champion Power Equipment, Inc. (CPE),
United States Environment Protection Agency (U.S. EPA)
Emission Control System Warranty

Your Champion Power Equipment (CPE) engine complies with U.S. EPA emission regulations.

YOUR WARRANTY RIGHTS AND OBLIGATIONS:

The US EPA AND CPE are pleased to explain the Federal Emission Control Systems Warranty on your 2013 small off-road engine and engine powered equipment. New engines and equipment must be designed, built and equipped, at the time of sale, to meet U.S. EPA regulations for small non-road engines. CPE warrants the emission control system on your small off-road engine and equipment for the period of time listed below, provided there has been no abuse, neglect, unapproved modification, or improper maintenance of your equipment.

Your emission control system may include parts such as the carburetor, fuel-injection system, the ignition system, catalytic converter and fuel lines. Also included may be hoses, belts, connectors and other emission related assemblies. Where a warrantable condition exits, CPE will repair your small off-road engine at no cost to you including diagnosis, parts and labor.

MANUFACTURER'S EMISSION CONTROL SYSTEM WARRANTY COVERAGE:

This emission control system is warranted for two years, subject to provisions set forth below. If, during the warranty period, emission related part on your engine is defective in materials or workmanship, the part will be repaired or replaced by CPE.

OWNER WARRANTY RESPONSIBILITIES:
As the small off-road engine owner, you are responsible for the performance of the required maintenance listed in your Owner's Manual. CPE recommends that you retain all your receipts covering maintenance on your small off-road engine, but CPE cannot deny warranty solely for the lack of receipts or for your failure to ensure the performance of all scheduled maintenance.

As the small off-road engine owner, you should however be aware that CPE may deny you warranty coverage if your small, off-road engine or a part has failed due to abuse, neglect, improper maintenance or unapproved modifications.

You are responsible for presenting your small off-road engine to an Authorized CPE service outlet or alternate service outlet as described in (3)(f.) below, CPE dealer or CPE, Santa Fe Springs, Ca. as soon as a problem exists. The warranty repairs should be completed in a reasonable amount of time, not to exceed 30 days.

If you have any questions regarding your warranty rights and responsibilities, you should contact:

Champion Power Equipment, Inc.
Customer Service
10006 Santa Fe Springs Road
Santa Fe Springs, CA 90670
1-877-338-0999
tech@championpowerequipment.com

EMISSION CONTROL SYSTEM WARRANTY

The following are specific provisions relative to your Emission Control System (ECS) Warranty Coverage.

1. APPLICABILITY: This warranty shall apply to 1997 and later model year small off-road engines. The ECS Warranty Period shall begin on the date the new engine or equipment is delivered to its original, end-use purchaser, and shall continue for 24 consecutive months thereafter.

2. GENERAL EMISSIONS WARRANTY COVERAGE

CPE warrants to the original, end-use purchaser of the new engine or equipment and to each subsequent purchaser that each of its small off-road engines is:

a. Designed, built and equipped so as to conform to U.S. EPA emissions standards for spark-ignited engines at or below 19 kilowatts.

b. Free from defects in materials and workmanship that cause the failure of a warranted part to be identical in all material respects to the part as described in the engine manufacturer's application for certification for a period of two years.

3. THE WARRANTY ON EMISSION-RELATED PARTS WILL BE INTERPRETED AS FOLLOWS:

a. Any warranted part that is not scheduled for replacement as required maintenance in the Owners Manual shall be warranted for the ECS Warranty Period. If any such part fails during the ECS Warranty Period, it shall be repaired or replaced by CPE according to Subsection "d" below. Any such part repaired or replaced under the ECS Warranty shall be warranted for any remainder of the ECS Warranty Period.

b. Any warranted, emissions-related part which is scheduled only for regular inspection as specified in the Owners Manual shall be warranted for the ECS Warranty Period. A statement in such written instructions to the effect of "repair or replace as necessary", shall not reduce the ECS Warranty Period. Any such part repaired or replaced under the ECS Warranty shall be warranted for the remainder of the ECS Warranty Period.

c. Any warranted, emissions-related part which is scheduled for replacement as required maintenance in the Owner's Manual shall be warranted for the period of time prior to the first scheduled replacement point for that part. If the part fails prior to the first scheduled replacement, the part shall be repaired or replaced by CPE according to Subsection "d" below. Any such emissions-related part repaired or replaced under the ECS Warranty, shall be warranted for the remainder of the ECS Warranty Period prior to the first scheduled replacement point for such emissions-related part.

d. Repair or replacement of any warranted, emissions-related part under this ECS Warranty shall be performed at no charge to the owner at a CPE Authorized Service Outlet.

e. The owner shall not be charged for diagnostic labor which leads to the determination that a part covered by the ECS Warranty is in fact defective, provided that such diagnostic work is performed at a CPE Authorized Service Outlet.

f. CPE shall pay for covered emissions warranty repairs at non-authorized service outlets under the following circumstances:

i. The service is required in a population center with a population over 100,000 according to U.S. Census 2000 without a CPE Authorized Service Outlet AND

ii. The service is required more than 100 miles from a CPE Authorized Service Outlet. The 100 mile limitation does not apply in the following states: Alaska, Arizona, Colorado, Hawaii, Idaho, Montana, Nebraska, Nevada, New Mexico, Oregon, Texas, Utah and Wyoming.

g. CPE shall be liable for damages to other original engine components or approved modifications proximately caused by a failure under warranty of an emission-related part covered by the ECS Warranty.

h. Throughout the ECS Warranty Period, CPE shall maintain a supply of warranted emission-related parts sufficient to meet the expected demand for such emission-related parts.

i. Any CPE Authorized and approved emission-related replacement part may be used in the performance of any ECS Warranty maintenance or repair and will be provided without charge to the owner. Such use shall not reduce CPE's warranty obligation.

j. Unapproved add-on or modified parts may not be used to modify or repair a CPE engine. Such use voids this ECS Warranty and shall be sufficient grounds for disallowing an ECS Warranty claim. CPE shall not be liable hereunder for failures of any warranted parts of a CPE engine caused by the use of such an unapproved add-on or modified part.

EMISSION-RELATED PARTS INCLUDE THE FOLLOWING: (using those portions of the list applicable to the engine)

Systems covered by this warranty	Parts Description
Fuel Metering System	Fuel regulator, Carburetor and internal parts
Air Induction System	Air cleaner, Intake manifold
Ignition System	Spark plug and parts, Magneto ignition system
Exhaust System	Exhaust manifold, catalytic converter
Miscellaneous Parts	Tubing, Fittings, Seals, Gaskets, and Clamps associated with these listed systems.
Evaporative Emissions	Fuel Tank, Fuel Cap, Fuel Line, Fuel Line Fittings, Clamps, Pressure Relief Valves, Control Valves, Control Solenoids, Electronic Controls, Vacuum Control Diaphragms, Control Cables, Control Linkages, Purge Valves, Vapor Hoses, Liquid/Vapor Separator, Carbon Canister, Canister Mounting Brackets, Carburetor Purge Port Connector

TO OBTAIN WARRANTY SERVICE:

You must take your CPE engine or the product on which it is installed, along with your warranty registration card or other proof of original purchase date, at your expense, to any Champion Power Equipment dealer who is authorized by Champion Power Equipment, Inc. to sell and service that CPE product during his normal business hours. Alternate service locations defined in Section (3)(f.) above must be approved by CPE prior to service. Claims for repair or adjustment found to be caused solely by defects in material or workmanship will not be denied because the engine was not properly maintained and used.

If you have any questions regarding your warranty rights and responsibilities, or to obtain warranty service, please write or call Customer Service at Champion Power Equipment, Inc.

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10006 Santa Fe Springs Road
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